

Global Amine Dehydrogenase Market Growth 2026-2032

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Abstracts

The global Amine Dehydrogenase market size is predicted to grow from US\$ 62.80 million in 2025 to US\$ 112 million in 2032; it is expected to grow at a CAGR of 8.7% from 2026 to 2032.

In 2025, global amine dehydrogenase(AmDH) sales volume was approximately 12 tons, with an average global market price of about USD 5,350/kg. The gross margin of major manufacturers in the industry was approximately 45%?65%.

Amine dehydrogenase is a class of oxidoreductase capable of catalyzing the reductive amination of ketone or aldehyde substrates with an ammonia source to produce amine compounds. The reaction usually depends on cofactors such as NADH or NADPH. Compared with transaminase and imine reductase, amine dehydrogenase can directly use ammonia or ammonium salts as the nitrogen source, converting carbonyl compounds into chiral amines or amine-containing intermediates in a single step, with relatively simple by-products and high atom economy. Due to its mild reaction conditions, good selectivity, and low risk of metal residue, amine dehydrogenase has strong application value in the green synthesis of chiral amines, API intermediates, and high-value fine chemicals.

The upstream of amine dehydrogenase mainly includes microbial strain resources, enzyme gene sequences, expression vectors, fermentation media, cofactor recycling systems, immobilization carriers, and enzyme formulation excipients. The midstream involves enzyme screening, directed evolution, fermentation expression, purification, immobilization treatment, and process scale-up. Downstream applications are mainly concentrated in pharmaceutical biocatalysis, agrochemical intermediate, and specialty fine chemical. In pharmaceutical and CDMO applications, amine dehydrogenase can be

used for the preparation of chiral amines, heterocyclic amines, aryl amine derivatives, and API intermediates. In agrochemical and specialty fine chemical applications, it can be used for the synthesis of amine-containing structural fragments, functional amine compounds, and customized high-value intermediates.

United States market for Amine Dehydrogenase is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for Amine Dehydrogenase is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Amine Dehydrogenase is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Amine Dehydrogenase players cover Johnson Matthey, Almac Group, SyncoZymes, Tianjin Bio-Pharmaceutical Biotechnology, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

LP Information, Inc. (LPI) ' newest research report, the "Amine Dehydrogenase Industry Forecast" looks at past sales and reviews total world Amine Dehydrogenase sales in 2025, providing a comprehensive analysis by region and market sector of projected Amine Dehydrogenase sales for 2026 through 2032. With Amine Dehydrogenase sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Amine Dehydrogenase industry.

This Insight Report provides a comprehensive analysis of the global Amine Dehydrogenase landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Amine Dehydrogenase portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Amine Dehydrogenase market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Amine Dehydrogenase and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Amine Dehydrogenase.

This report presents a comprehensive overview, market shares, and growth opportunities of Amine Dehydrogenase market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Aliphatic Ketone Type

Aromatic Ketone Type

Heterocyclic Ketone Type

Segmentation by Catalytic Selectivity:

R-selective Type

S-selective Type

Broad-spectrum Type

Segmentation by Form:

Free Enzyme Preparation

Immobilized Enzyme Preparation

Whole-cell Catalyst

Segmentation by Application:

Pharmaceutical Biocatalysis

Agrochemical Intermediate

Specialty Fine Chemical

Other

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Johnson Matthey

Almac Group

SyncoZymes

Tianjin Bio-Pharmacn Biotechnology

Key Questions Addressed in this Report

What is the 10-year outlook for the global Amine Dehydrogenase market?

What factors are driving Amine Dehydrogenase market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Amine Dehydrogenase market opportunities vary by end market size?

How does Amine Dehydrogenase break out by Type, by Application?

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